

## REMARKS

This is in response to the Office Action dated September 20, 2006. The Office Action objected to claims 21 and 22 due to informalities. The Office Action rejected claims 1, 3, 9, 13-15, 18 and 19 under 35 U.S.C. §102(a) as being anticipated by Yang et al., A Sequential Monte Carlo Blind Receiver for OFDM Systems in Frequency-Selective Fading Channels, IEEE Trans. Sig. Proc., 50(2):271-280, February 2002. The Office Action provisionally rejected claims 1, 13 and 14 on the ground of nonstatutory obviousness-type double patenting as being unpatentable over certain claims of Application No. 11/063,633. The Office Action indicated that claims 21 and 22 would be allowable if rewritten to overcome the informalities. The Office Action indicated that claims 2, 4-8, 10-12, 16 and 17 and 20 are objected to as being dependent upon an objected to claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

In response to the objections to claims 21 and 22, Applicant has amended claims 21 and 22 as suggested by the Examiner. Allowance of claims 21 and 22 is requested.

In response to the provisional nonstatutory obviousness-type double patenting rejection, Applicant submits herewith a Terminal Disclaimer to Obviate a Provisional Double Patenting Rejection Over a Pending "Reference" Application. Applicant requests withdrawal of the provisional nonstatutory obviousness-type double patent rejection in view of the terminal disclaimer.

In order to expedite allowance of this application, Applicant has amended allowable claims 12, 17 and 20. These claims are now in independent form and have been amended to include all of the limitations of the base claim and any intervening claims. In view of the Examiner's identification of these claims as allowable, Applicant requests allowance of these amended claims.

In response to the §102 rejection of claim 13, Applicant has amended claim 13 to include the limitation that the channel is a multiple-input multiple-output (MIMO) channel. This is the limitation of claim 12 that the Examiner identified as allowable. Thus, claim 13 now contains

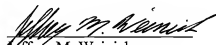
limitations similar to allowable claim 12, and is therefore also allowable. Allowance of claim 13 is requested.

Rejected claims 1, 14 and 18 have been cancelled in order to expedite prosecution of this application. Applicant reserves the right to present these claims in one or more continuation applications.

Claims 2-5, 8-11, 15, 16 and 19 have been amended to change their dependency to an allowable independent claim. All remaining dependent claims are now dependent upon an allowable independent claims.

In view of the above, allowance of pending claims 2-13, 15-17 and 19-22 is requested.

Respectfully submitted,

  
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